

## LITTLE COLORADO RIVER BASIN

09396500 PUERCO RIVER NEAR ADAMANA, AZ

LOCATION.--Lat 34°58'45", long 109°47'40", in NE<sup>1</sup>/<sub>4</sub>, sec.9, T.18 N., R.24 E., Apache County, Hydrologic Unit 15020007, at highway bridge in Petrified Forest National Monument, 0.25 mi downstream from Dead Wash and 1.5 mi east of Adamana.

DRAINAGE AREA.--2,654 mi<sup>2</sup>, of which 50.5 mi<sup>2</sup> is noncontributing.

### Annual peak discharges

Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes	Water year	Date	Annual peak discharge (ft <sup>3</sup> /s)	Discharge codes
1940	08-23-40	7,500		1945	02-03-45	5,740	
1941	09-29-41	22,600		1946	08-12-46	30,000	
1942	10-04-41	19,400		1947	08-10-47	22,000	
1943	09-26-43	4,800		1948	10-14-47	17,100	
1944	09-26-44	4,700		1949	08-08-49	8,040	

Magnitude and probability of instantaneous peak flow based on period of record 1940-49

Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
11,500	20,900	28,400	39,200	48,200	57,900
Weighted skew	(logs) =	-0.08			
Mean	(logs) =	4.06			
Standard dev.	(logs) =	0.31			

† Reliability of values in column is uncertain, and potential errors are large.

### Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
15.7	115	6,730	29.0	2.8	12.6	1.4	2.7

